

upon the Paper made an Angle with the Paper, equal to that Angle which was made with the same Paper by the Light reflected from it to the Eye. Beyond the Prism was the Wall of the Chamber under the Window covered over with black Cloth, and the Cloth was involved in Darkness that no Light might be reflected from thence, which in passing by the edges of the Paper to the Eye, might mingle it self with the Light of the Paper and obscure the Phenomenon thereof. These things being thus ordered, I found that if the refracting Angle of the Prism be turned upwards, so that the Paper may seem to be lifted upwards by the Refraction, its blew half will be lifted higher by the Refraction than its red half. But if the refracting Angle of the Prism be turned downward, so that the Paper may seem to be carried lower by the Refraction, its blew half will be carried something lower thereby than its red half. Wherefore in both cases the Light which comes from the blew half of the Paper through the Prism to the Eye, does in like Circumstances suffer a greater Refraction than the Light which comes from the red half, and by consequence is more refrangible.

*Fig. 11. Illustration.* In the Eleventh Figure, *MN* represents the Window, and *DE* the Paper terminated with parallel Sides *DJ* and *HE*, and by the transverse Line *FG* distinguished into two halves, the one *DG* of an intensely blew Colour, the other *FE* of an intensely red. And *BACcab* represents the Prism whose refracting Planes *ABba* and *ACca* meet in the edge of the refracting Angle *Aa*. This edge *Aa* being upward, is parallel both to the Horizon and to the parallel edges of the Paper *DJ* and *HE*. And *de* represents the Image of the Paper seen by Refraction upwards in such manner that the blew half *DG* is carried higher to *dg* than the red half *FE* is to *fe*, and therefore suffers

suffers a greater Angle be turned be refracted downwards will be refracted

*Exper. 2.* A were painted over like thin Pastboard of very black S of the third m black Lines drawn dark Shadows of Lines with a Pen defined. This a Wall perpendicular Colours might the left. Close colours below I strongly : For The flame of the Paper, or a Six Feet and on Floor I erected broad, which n several Points of wards so many Feet and one or and so form the Paper placed the a hole in a Window upon a Sheet of said white Paper and to the Rays sometimes towards